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Question Paper Code: 59772

B.E./B.Tech. DEGREE EXAMINATION, DEC 2020

Open elective

Civil Engineering

15UME972 - INDUSTRIAL SAFETY AND ENGINEERING

(Common to CSE, ECE, EEE, EIE ,IT and Chemical Engineering branches)

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

1. In time study, the rating factor is applied to determine CO1- R
 - (a) standard time of a job
 - (b) merit rating of the worker
 - (c) fixation of incentive rate
 - (d) normal time of a worker
2. Standard time is equal to CO1- R
 - (a) Normal time minus allowances
 - (b) Normal time plus allowances
 - (c) Representative time multiplied by rating factor
 - (d) Normal time taken by an operation
3. MBO was invented by _____. CO2- R
 - (a) Peter Drucker
 - (b) Koontz & O 'Donell
 - (c) Henry Fayol
 - (c) Henry Fayol
4. The end result of risk management is CO2- R
 - (a) To eliminate danger to the public
 - (b) To minimize cost to the company
 - (c) To reduce risk to an acceptable level
 - (d) None of the above
5. Which of the following is the primary reason for accident investigation? CO3- R

design?

 - (a) To identify a scapegoat
 - (b) To take disciplinary action
 - (c) To prevent future accidents
 - (d) None of the above

6. Which one of the following factors is not important in organization design? CO3- R
 (a) Environment (b) strategy (c) information relationships (d) technology
7. Which of the following specific procedures must your training include, to protect you from exposure to hazardous chemicals? CO4- R
 (a) Appropriate work practices (b) Emergency procedures
 (c) Personal protective equipment (d) All of the above
8. According to Herzberg, which of the following is a maintenance factor? CO4- R
 (a) Salary (b) work itself (c) responsibility (d) recognition
9. Protection of organizational facilities and employees is called CO5- R
 (a) Adverse situation (b) Security (c) Safety (d) Health
10. A product layout is generally preferred for CO5-R
 (a) Batch production (b) continuous type of production
 (c) effective machine utilization ratio (d) all of the above

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Analyze the history of safety movement in india CO1- Ana (8)
12. Mention and explain the steps in planning process with neat diagram CO2-Ana (8)
13. Explain the nature and purpose of an organization CO3- U (8)
14. Explain how motivation helps an organization to improve productivity? CO4- U (8)
15. Explain the steps in the process of controlling. CO5- U (8)